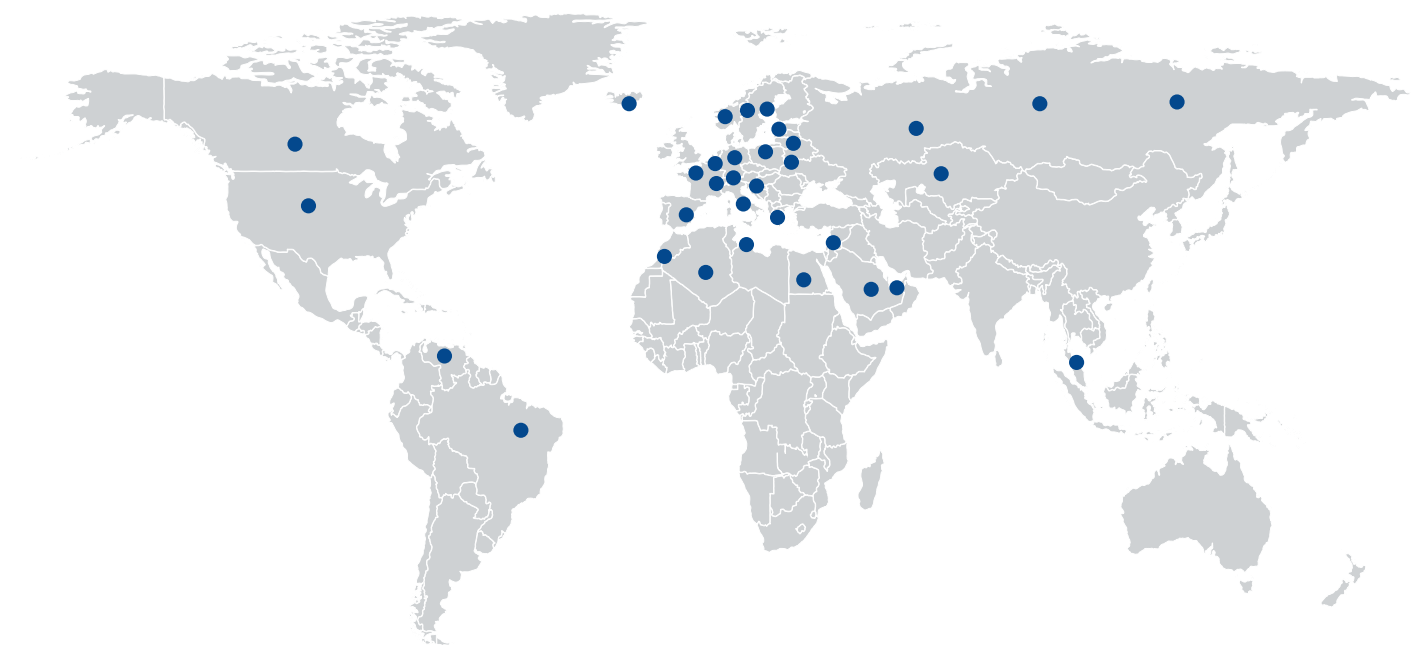




PRESS BRAKES

SINCE 1973

Sheet metal
working
machines



VIMERCATI

100% MADE IN ITALY QUALITY

F.lli Vimercati s.n.c. was founded in 1973 as a business venture in Brianza, north of Milan, on the initiative of the four Vimercati brothers and partners, Marco, Mario, Sergio and Antonio, who are still currently guiding the company. It is specialized in the production of Press Brakes and Shears.

All production is entirely manufactured inside their productive plant in Sovico (MB). The company covers an area of 7,500 m² organised in various departments equipped with the most advanced technological machinery: carpentry, boring, grinding, lapping, CNC milling and lathes centres, sanding and painting plants, assembly of electrical plants, and automatic storage systems.

Qualified staff deal with the production process and take care of it in detail and manage the after sales service.

The company philosophy is based on the study of customized solutions that are tailored to customer requirements. Attentive to the evolution of the market and development of new technologies.

CARPENTRY

The frame uprights of the machine are made from the same standard metal sheet (material certified to S355J2 + N) and cut in the same machining direction to guarantee a homogeneous behaviour of the structure.

The machine frame is assembled and welded in the carpentry division. All contact surfaces are milled before welding for perfect contact, thus ensuring a high quality structure: rigid and precise, free from tensions.









MECHANICAL PROCESSING

Due to the assembly precision obtained by the machined surfaces, during boring operations only small amounts of material have to be removed thus reducing heating.

All components are made entirely in the plant, equipped with a fleet of latest generation machines that are constantly being renewed.

All mechanical processing, electrical and hydraulic systems are entirely built with world class materials and components.









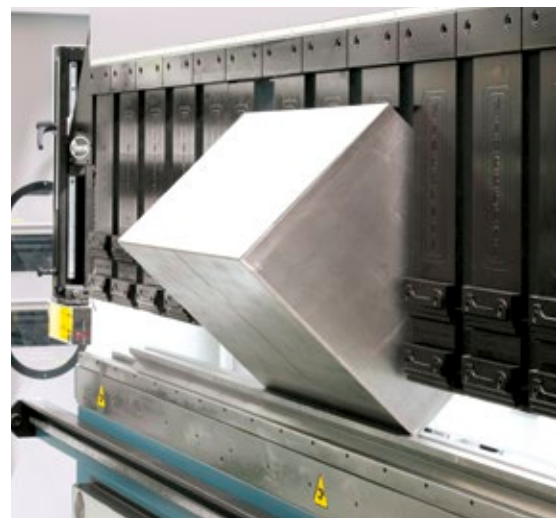
PHSY ton. 30x1250 mm



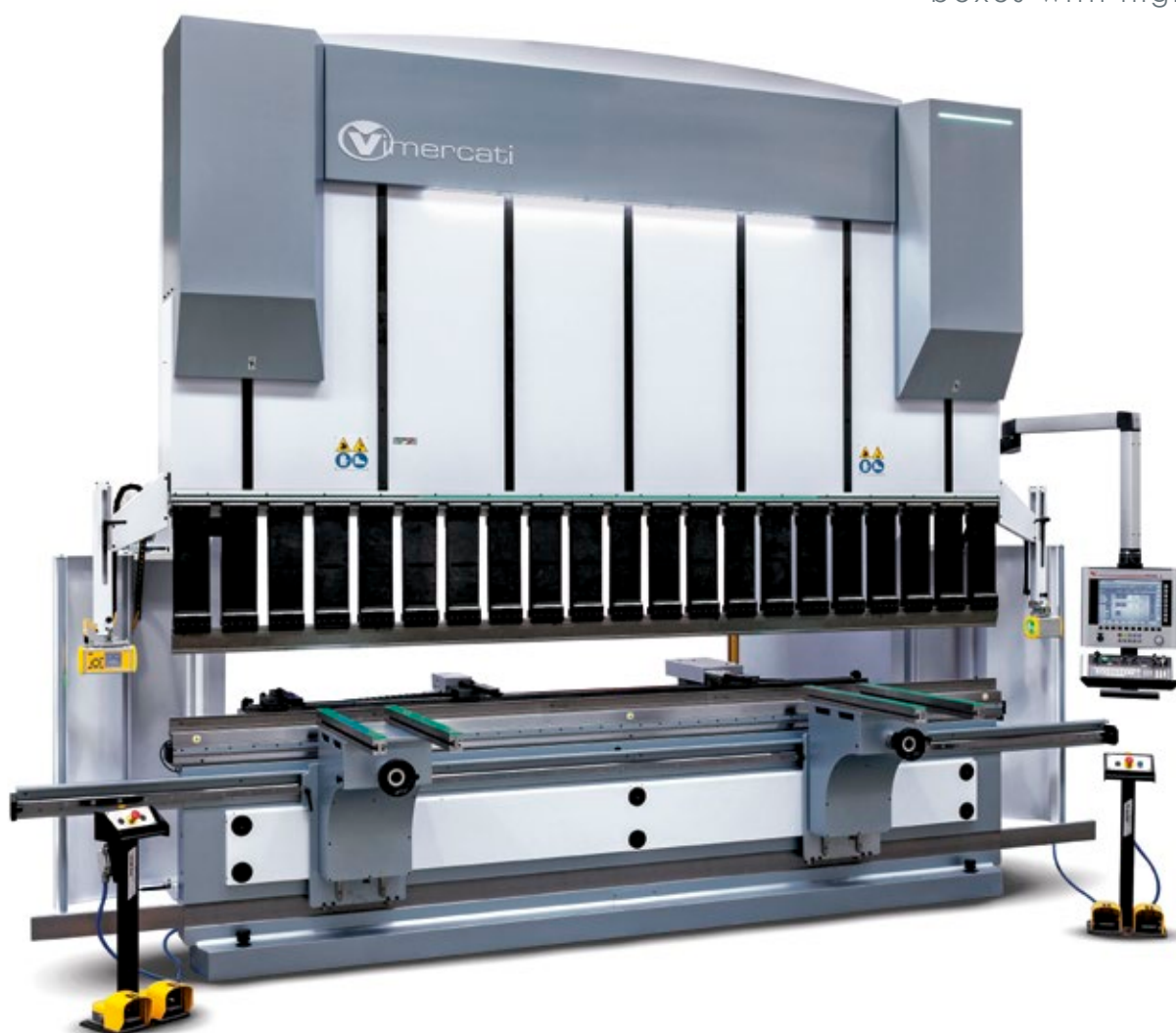
PHSY ton. 250x3050 mm
stroke Y1-Y2 520 mm
opening 780 mm

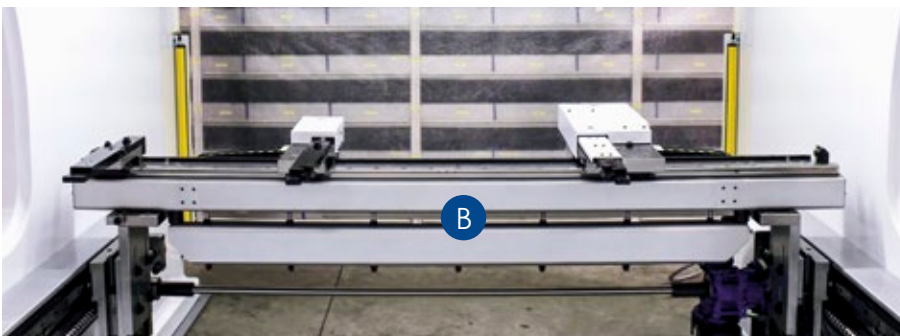


PHSY ton. 150x3050 mm with frontal sheet support A1 with side parking and toolholders H=500 for the production of electrical boxes and cabinets.



PHSY ton. 300x4175 mm with frontal sliding supports with side parking and toolholders H=500 for the production of closed boxes with high edges.





Ⓐ Double guiding system for uprights with lateral hemispheric adjustment. High and permanent precision of ram movement, especially for heavy duty bending operations.

Ⓑ View of the device for permanent rigidity and linearity of the ram and back gauge.

Patented CNC managed hydraulic crowning HCL System (C) : cylinders of different boring operations housed in a hemispheric system distributed in a uniform way. Equal distribution of crowning forces over the working lengths to grant the perfect bending parallelism.





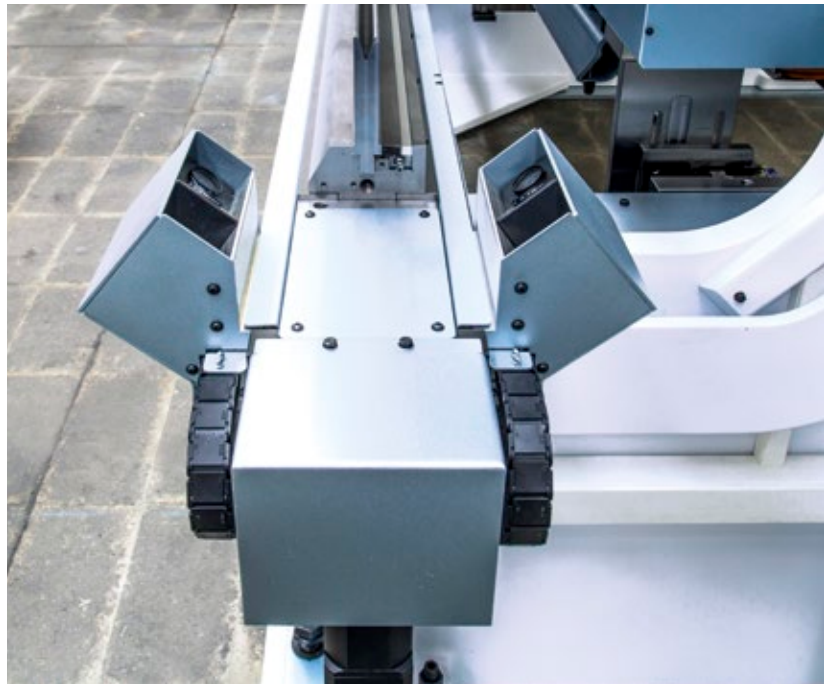
Back gauge system with 6 axes X1-X2-Z1-Z2-R1-R2

High speed back gauge with recirculating ball screws managed by the CNC. High flexibility with a possibility of axes up to X-X1-X2-XRel1-XRel2-R-Z1-Z2-Z3-Z4 and pneumatic bending extension to support the sheet metal.





Bending-flattening tool controlled by the CNC.



Data-M angle laser measuring device.

LED bar for tool positioning and axes Z1 - Z2. The LED indicates the tool position required and shows the steps of the programmed bending sequence.

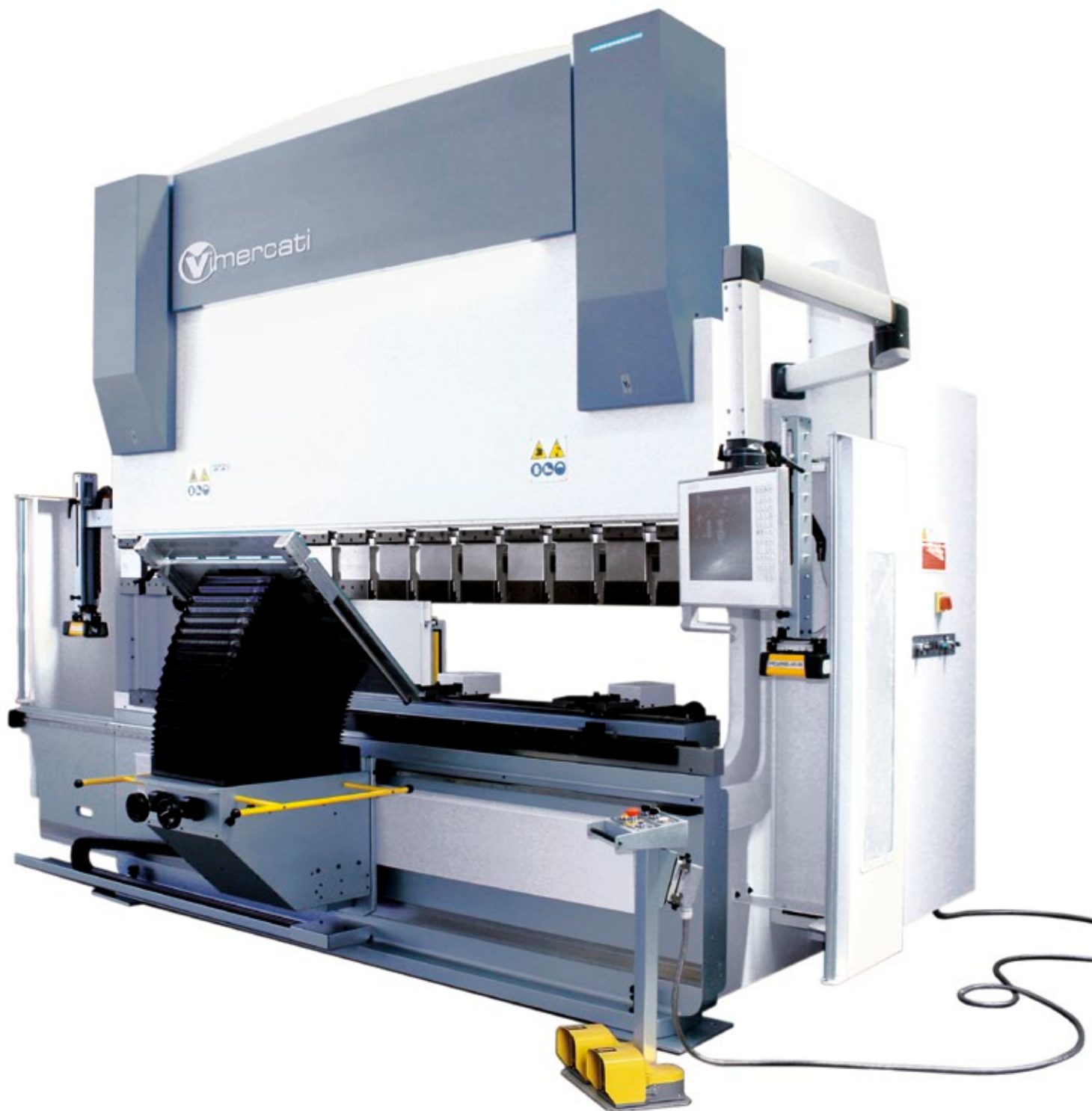


Wila hydraulic clamping on top and bottom tool.



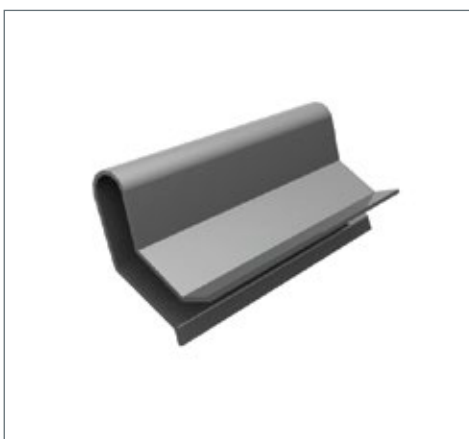
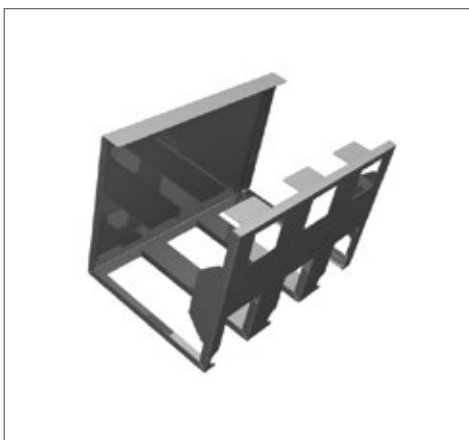
Pneumatic clamping on top and bottom tool.

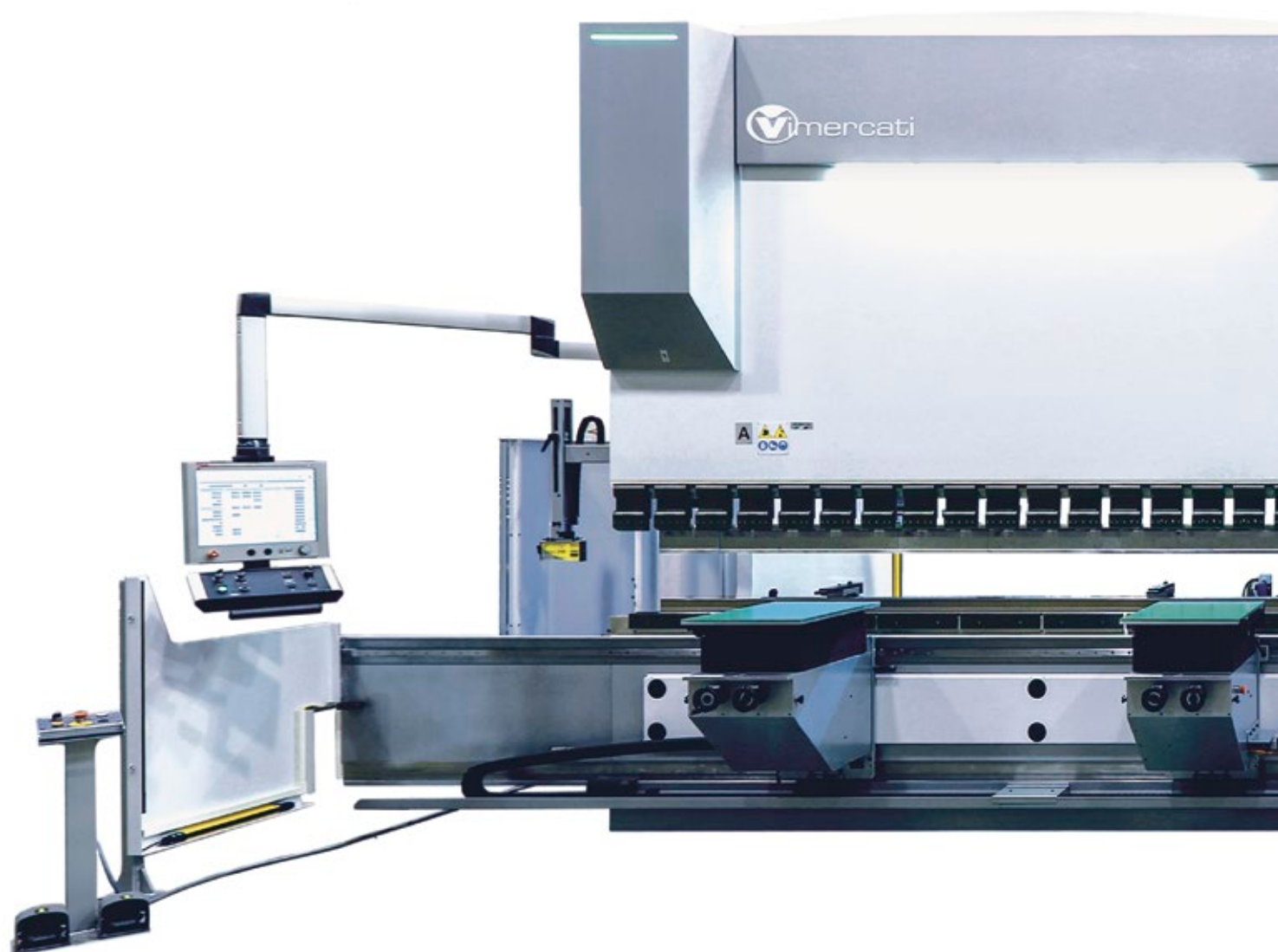




Electromechanical frontal sheet supports controlled by the CNC and synchronised with axes Y1-Y2, available on axis A1 - A2 - H3 - H4 with lateral parking.

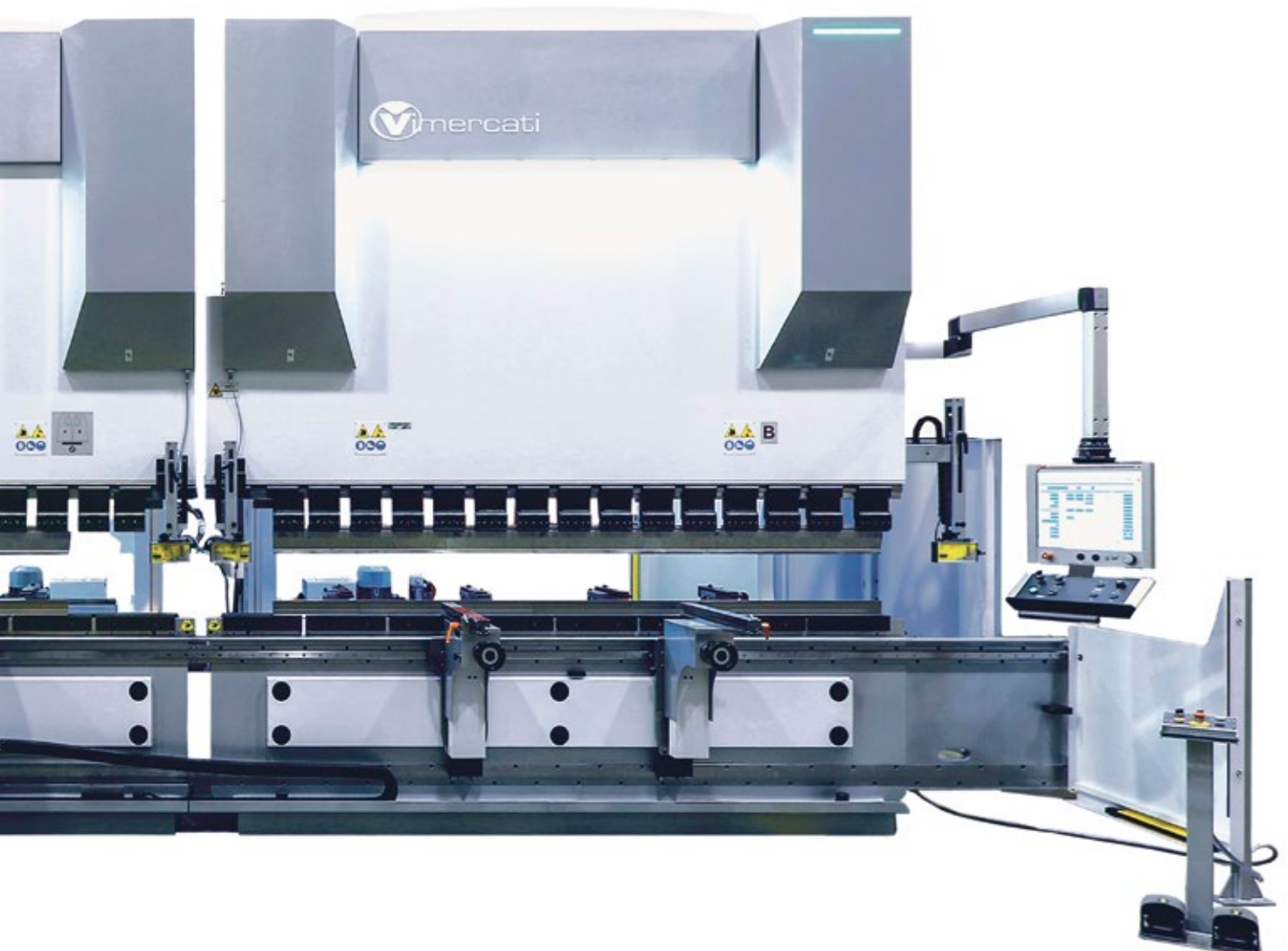
Frontal sliding supports mounted on linear guide, height adjustable with handwheel, with millimetric scale, stops and lateral parking.





TANDEM

Tandem configuration is available with two or more press brakes having the same bending length and same nominal bending pressures, or with two or more press brakes having different lengths and different nominal bending pressures. The press brakes can work in tandem mode or single mode, that means that each one can work separately and independently. Working separately, each machine is protected by photocells. Working in tandem, the machines are protected by laser barriers.



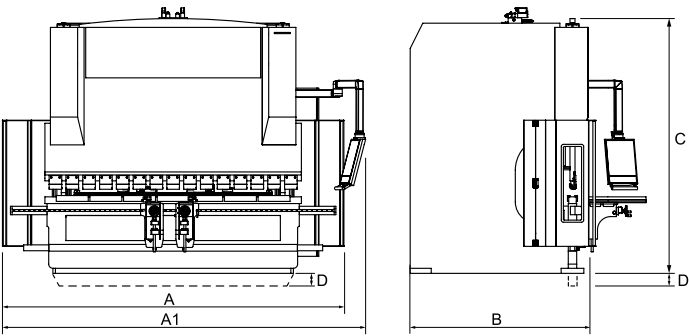
ROBOTIZED BENDING CELLS



The robotized bending cells allow a customized solution to perform bending operations in automatic mode, combining to the press brake a robot with Cartesian axes or an anthropomorphic one.

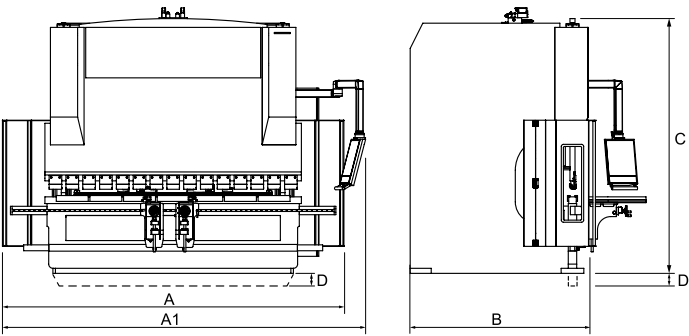


PRESS BRAKES TECHNICAL FEATURES



TONS	WORKING LENGTH MM	DISTANCE BETWEEN THE UPRIGHTS MM	HEIGHT OF THE WORKING TABLE MM	BENDING FORCE KN	AXIS X STROKE MM	AXIS Y STROKE MM	AXIS R STROKE MM	DESCENT SPEED MM/SEC	OPERATION SPEED MM/SEC	ASCENT SPEED MM/SEC	CLEARANCE TABLE/RAM MM	GAP MM	MAIN MOTOR KW	WEIGHT KG	A MM	A1 MM	B GAP 300 MM	B GAP 500 MM	C MM	D MM
3012	1250	1000	940	300	450	180	130	160	0-10	150	365	150	4	3200	2200	2950	1400	1800	2400	
5020	2085	1550	900	500	500	215	180	160	0-10	150	410	300/500	4	5400	2650	3450	1650	1800	2800	
5025	2505	2050	900	500	500	215	180	160	0-10	150	410	300/500	4	5700	3150	3950	1650	1800	2900	
5030	3050	2550	900	500	500	215	180	200	0-10	150	410	300/500	4	6100	3650	4450	1650	1800	2900	
5040	4175	3550	900	500	500	215	180	200	0-10	150	410	300/500	4	7800	4650	5450	1700	1850	2900	
7520	2085	1550	900	750	500	215	180	160	0-10	150	410	300/500	7,5	7800	2650	3450	1800	2000	2800	
7525	2505	1550	900	750	500	215	180	160	0-10	150	410	300/500	7,5	8000	3150	3950	1800	2000	2800	
7530	3050	2550	910	750	500	215	180	200	0-10	150	410	300/500	7,5	8800	3650	4450	1800	2000	2800	
7540	4175	3550	910	750	500	215	180	200	0-10	150	410	300/500	7,5	10250	4650	5450	1850	2050	2900	
10020	2085	1550	910	1000	500	270	180	160	0-10	150	460	500	7,5	8100	2650	3450		2000	2900	
10025	2505	2050	910	1000	500	270	180	160	0-10	150	460	500	7,5	9000	3150	3950		2000	2900	
10030	3050	2550	910	1000	500	270	180	200	0-10	150	460	500	7,5	10500	3650	4450		2000	3000	
10040	4175	3550	910	1000	500	270	180	200	0-10	150	460	500	7,5	12500	4650	5450		2050	3100	
10050	5050	2550	910	1000	500	270	180	180	0-10	150	460	500	7,5	15100	5650	6450		2050	3200	
10060	6050	2550	910	1000	500	270	180	160	0-10	150	460	500	7,5	18200	6650	7450		2100	3300	
12520	2085	1550	910	1250	500	270	180	140	0-10	150	460	500	11	8600	2650	3450		2050	3000	
12525	2505	2050	910	1250	500	270	180	140	0-10	150	460	500	11	9700	3150	3950		2100	3000	
12530	3050	2550	910	1250	500	270	180	200	0-10	150	460	500	11	12400	3650	4450		2050	3000	
12540	4175	3550	910	1250	500	270	180	200	0-10	150	460	500	11	15000	4650	5450		2100	3100	
12550	5050	4050	910	1250	500	270	180	160	0-10	150	460	500	11	18300	5650	6450		2100	3200	
12560	6050	5050	910	1250	500	270	180	160	0-10	150	460	500	11	21500	6650	7450		2150	3300	
15030	3050	2550	910	1500	500	270	180	160	0-10	120	460	500	15	13500	3650	4450		2050	3200	
15040	4175	3550	910	1500	500	270	180	200	0-10	120	460	500	15	15600	4650	5450		2100	3300	
15050	5050	4050	910	1500	500	270	180	200	0-10	120	460	500	15	20000	5650	6450		2100	3400	
15060	5060	5050	910	1500	500	270	180	160	0-10	120	460	500	15	24000	6650	7450		2150	500	800

PRESS BRAKES TECHNICAL FEATURES



TONS	WORKING LENGTH MM	DISTANCE BETWEEN THE UPRIGHTS MM	HEIGHT OF THE WORKING TABLE MM	BENDING FORCE KN	AXIS X STROKE MM	AXIS Y STROKE MM	AXIS R STROKE MM	DESCENT SPEED MM/SEC	OPERATION SPEED MM/SEC	ASCENT SPEED MM/SEC	CLEARANCE TABLE/RAW MM	GAP MM	MAIN MOTOR KW	WEIGHT KG	A MM	A1 MM	B GAP 300 MM	B GAP 500 MM	C MM	D MM
20030	3050	2550	910	2000	1000	270	200	140	0 -10	135	460	500	18,5	16100	3650	4450	2050	3300		
20040	4175	3550	910	2000	1000	270	200	180	0 -10	135	460	500	18,5	20500	4650	5450	2100	3400		
20050	5050	4550	910	2000	1000	270	200	180	0 -10	135	460	500	18,5	25000	5650	6450	2100	3500	900	
20060	6050	5550	910	2000	1000	270	200	150	0 -10	135	460	500	18,5	28300	6650	7450	2150	3600	1100	
25030	3050	2550	910	2500	1000	270	200	130	0 -10	125	460	500	22	18600	3650	4450	2300	3400		
25040	4175	3550	910	2500	1000	270	200	150	0 -10	125	460	500	22	23500	4650	5450	2350	3500		
25050	5050	4550	910	2500	1000	270	200	150	0 -10	125	460	500	22	27800	5650	6450	2350	3650	900	
25060	6050	5550	910	2500	1000	270	200	150	0 -10	125	460	500	22	32500	6650	7450	2350	3750	1100	
30030	3050	2550	910	3000	1000	320	200	120	0 - 8	90	560	500	30	24500	3650	4450	2500	3500	850	
30040	4175	3550	910	3000	1000	320	200	140	0 - 8	90	560	500	30	30000	4650	5450	2600	3600	1150	
30050	5050	4550	910	3000	1000	320	200	140	0 - 8	90	560	500	30	35500	5650	6450	2650	3700	1450	
30060	6050	5550	910	3000	1000	320	200	120	0 - 8	90	560	500	30	41000	6650	7450	2650	3800	1550	
40030	3050	2550	910	4000	1000	370	200	100	0 - 8	95	600	500	37	31000	3650	4450	2600	3500	1100	
40040	4175	3550	910	4000	1000	370	200	120	0 - 8	95	600	500	37	36000	4650	5450	2600	3600	1300	
40050	5050	4550	910	4000	1000	370	200	120	0 - 8	95	600	500	37	42000	5650	6450	2750	3700	1500	
40060	6050	5550	910	4000	1000	370	200	100	0 - 8	95	600	500	37	49000	6650	7450	2750	3800	1700	
40080	8050	7050	910	4000	1000	370	200	100	0 - 8	95	600	500	37	58000	8650	9450	2750	4100	2000	
50040	4175	3550	910	5000	1000	420	220	90	0 - 8	95	650	500	45	42800	4650	5450	2850	3900	1400	
50050	5050	4550	910	5000	1000	420	220	110	0 - 8	95	650	500	45	48000	5650	6450	2900	4100	1600	
50060	6050	5550	910	5000	1000	420	220	110	0 - 8	95	650	500	45	54500	6650	7450	2900	4300	1800	
50080	8050	7050	910	5000	1000	420	220	100	0 - 8	95	650	500	45	63000	8650	9450	2900	4500	2100	
60040	4175	3550	910	6000	1000	520	220	90	0 - 7	80	650	500	55	51000	4650	5450	3150	4150	1600	
60050	5050	4550	910	6000	1000	520	220	100	0 - 7	80	650	500	55	58500	5650	6450	3200	4250	1800	
60060	6050	5550	910	6000	1000	520	220	100	0 - 7	80	650	500	55	65000	6650	7450	3200	4350	2000	
60080	8050	7050	910	6000	1000	520	220	100	0 - 7	80	650	500	55	75000	8650	9450	3200	4500	2200	



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